

## CLAIMS

What is claimed is:

- 5 1. A method for treating water glass wastewater, comprising the step of biodegrading said wastewater without any prior pH adjustment by alkalophilic/alkaline-tolerant microbes .
2. The method of claim 1, wherein said alkalophilic/alkaline-tolerant microbes are  
10 cultured on activated carbon.
3. The method of claim 1, further comprising the step of separating water glass from water after treatment with alkalophilic/alkaline-tolerant microbes.
- 15 4. The method of claim 3, wherein said step of separating water glass from water comprises the steps of lowering the pH of said wastewater being biodegraded by alkalophilic/alkaline-tolerant microbes and removing coagulated water glass.
5. The method of claim 3, wherein said step of separating water glass from water  
20 comprises the steps of adjusting the pH of said wastewater being biodegraded by alkalophilic/alkaline-tolerant microbes to a range within 6-11 and removing coagulated water glass.
6. The method of claim 3, wherein said step of separating water glass from water  
25 comprises the step of distilling said wastewater being biodegraded by alkalophilic/alkaline-tolerant microbes to remove water and concentrated water glass.
7. A method for obtaining alkalophilic/alkaline-tolerant microbes comprising the steps of collecting microbes from water treatment facilities and culturing the microbes in  
30 water glass wastewater.
8. The method of claim 7, wherein said step of culturing the microbes is carried out in water glass wastewater with ADMI greater than 108

9. A method for separating water glass from water, comprising the step of adjusting the pH of the water containing water glass to a range within 6-11 and removing the coagulated water glass.

5

10. A method for separating water glass from water, comprising the step of boiling the biotreated wastewater containing water glass.

11. A composition for dyeing textile, comprising water glass and recycled water glass.

10

12. A method for treating water glass wastewater, comprising the steps of:

(a) obtaining alkalophilic/alkaline-tolerant microbes;

(b) biodegrading said water glass wastewater without any prior pH adjustment by alkalophilic/alkaline-tolerant microbes;

15 (c) separating water glass from water by lowering the pH of said wastewater being biodegraded by alkalophilic/alkaline-tolerant microbes;

(d) removing coagulated water glass and water.

13. The method of claim 12, wherein said alkalophilic/alkaline-tolerant microbes are cultured on activated carbon.

20

14. A method for treating water glass wastewater, comprising the steps of:

(a) obtaining alkalophilic/alkaline-tolerant microbes;

(b) biodegrading said water glass wastewater without any prior pH adjustment by alkalophilic/alkaline-tolerant microbes;

25

(c) separating water glass from water by distilling said wastewater being biodegraded by alkalophilic/alkaline-tolerant microbes.

15. The method of claim 14, wherein said alkalophilic/alkaline-tolerant microbes are cultured on activated carbon.

30

16. A method for treating water glass wastewater, comprising the steps of :

(a) collecting microbes from water treatment facilities;

(b) culturing said microbes in water glass waste water with ADMI ranging from 200 – 45,000.

(c) biodegrading said water glass wastewater without any prior pH adjustment by alkalophilic/alkaline-tolerant microbes;

5 (d) separating water glass from water by lowering the pH of said wastewater being biodegraded by said microbes;

(e) removing coagulated water glass from water; and

17. The method of claim 16, wherein said alkalophilic/alkaline-tolerant microbes are  
10 cultured on activated carbon.

18. A method for treating water glass wastewater, comprising the steps of :

(a) collecting microbes from water treatment facilities;

15 (b) culturing said microbes in water glass waste water with ADMI ranging from 200 – 45,000.

(c) biodegrading said water glass wastewater without any prior pH adjustment by alkalophilic/alkaline-tolerant microbes;

20 (d) separating water glass from water by distilling said wastewater being biodegraded by alkalophilic/alkaline-tolerant microbes to obtain concentrated water glass for reuse.

19. The method of claim 18, wherein said alkalophilic/alkaline-tolerant microbes are cultured on activated carbon.

25